5

<110> Ivarie, Cathy

   Allen-Hoffmann, Lynn

10   Conrad, Paul

<120> Improved Methods for Organotypic Culture

15

<130> Strata-06333

20
<160> 3

25   <170> PatentIn version 3.0

<210> 1
30
<211> 2908

<212> DNA

35   <213> Mus musculus

<400> 1
40   gacgccaaga gagcgagcgc ggctccgggc gcgcggggag cagaggcggt ggcgggcggc   60

   gggggcaccc ggagccgccg agtgcccctc cccgcccctc cagcccccca cccaggaacc   120

   cgcccgtgac ccgcgcccat ggccgcgcgc acccggtaca gtccccagga ctccgcaccc   180
45
   cgcgccaccg tccagctcgc agttccgcgc caccgcggcc attctcacct ggcggcgccg   240

   cccgccaccg cccggaccac agcccccgcg ccgccgacag ccacagtggc cgcgacaacg   300

50   gtgggggaca ctgctgagtc caagagcgtg cagcctggcc atcggaccta cttatctgcc   360

   ttgctgattg tctattttta taagagttta caacttttct aagaattttt gtatacaaag   420

   gaactttttt taaagacatc gccggtttat attgaatcca aagaagaagg atctcgggca   480
55
   atctgggggt tttggtttga ggttttgttt ctaaagtttt taatcttcgt tgactttggg   540

80

```
        gctcaggtac ccctctctct tcttcggact ccggaggacc ttctgggccc ccacattaat    600

        gaggcagcca cctggcgagt ctgacatggc tgtcagcgac gctctgctcc cgtccttctc    660

        cacgttcgcg tccggcccgg cgggaaggga aagacactg cgtccagcag gtgccccgac     720

        taaccgttgg cgtgaggaac tctctcacat gaagcgactt cccccacttc ccggccgccc    780

        ctacgacctg gcggcgacgg tggccacaga cctggagagt ggcggagctg gtgcagcttg    840

        cagcagtaac aacccggccc tcctagcccg gagggagacc gaggagttca acgacctcct    900

        ggacctagac tttatccttt ccaactcgct aacccaccag gaatcggtgg ccgccaccgt    960

        gaccacctcg gcgtcagctt catcctcgtc ttccccggcg agcagcggcc ctgccagcgc    1020

        gccctccacc tgcagcttca gctatccgat ccgggccggg ggtgacccgg gcgtggctgc    1080

        cagaaacaca ggtggagggc tcctctacag ccgagaatct gcgccacctc ccacggcccc    1140

        cttcaacctg ggggacatca atgacgtgag cccctcgggc ggcttcgtgg ctgagctcct    1200

        gcggccggag ttggacccag tatacattcc gccacagcag cctcagccgc caggtggggg    1260

        gctgatgggc aagtttgtgc tgaaggcgtc tctgaccacc cctggcagcg agtacagcag    1320

        cccttcggtc atcagtgtta gcaaaggaag cccagacggc agccaccccg tggtagtggc    1380

        gccctacagc ggtggcccgc cgcgcatgtg ccccaagatt aagcaagagg cggtcccgtc    1440

        ctgcacggtc agccggtccc tagaggccca tttgagcgct ggaccccagc tcagcaacgg    1500

        ccaccggccc aacacacacg acttcccccct ggggcggcag ctccccacca ggactacccc   1560

        tacactgagt cccgaggaac tgctgaacag cagggactgt caccctggcc tgcctcttcc    1620

        cccaggattc catccccatc cgggggccaa ctaccctcct ttcctgccag accagatgca    1680

        gtcacaagtc ccctctctcc attatcaaga gctcatgcca ccgggttcct gcctgccaga    1740

        ggagcccaag ccaaagaggg gaagaaggtc gtggccccgg aaaagaacag ccacccacac    1800

        ttgtgactat gcaggctgtg gcaaaaccta taccaagagt tctcatctca aggcacacct    1860

        gcgaactcac acaggcgaga aaccttacca ctgtgactgg gacggctgtg ggtggaaatt    1920

        cgcccgctcc gatgaactga ccaggcacta ccgcaaacac acagggcacc ggccctttca    1980

        gtgccagaag tgtgacaggg ccttttccag gtcggaccac cttgccttac acatgaagag    2040

        gcacttttaa atcccacgta gtggatgtga cccacactgc caggagagag agttcagtat    2100

        ttttttttct aacctttcac actgtcttcc cacgagggga ggagcccagc tggcaagcgc    2160

        tacaatcatg gtcaagttcc cagcaagtca gcttgtgaat ggataatcag gagaaaggaa    2220
```

81

```
gagtccaaga gacaaaacag aaatactaaa aacaaacaaa caaaaaaaca aacaaaaaaa   2280

ccaagaaaaa aaaatcacag aacagatggg gtctgatact ggatggatct tctatcattc   2340

caataccaaa tccaacttga acatgcccgg acttacaaaa tgccaagggg tgactggaag   2400

tttgtggata tcagggtata cactaaatca gtgagcttgg ggggagggaa gaccaggatt   2460

cccttgaatt gtgtttcgat gatgcaatac acacgtaaag atcaccttgt atgctctttg   2520

ccttcttaaa aaaaaaaagc cattattgtg tcggaggaag aggaagcgat tcaggtacag   2580

aacatgttct aacagcctaa atgatggtgc ttggtgagtt gtggtcctaa aggtaccaaa   2640

cgggggagcc aaagttctcc aactgctgca tacttttgac aaggaaaatc tagttttgtc   2700

ttccgatcta cattgatgac ctaagccagg taaataagcc tggtttattt ctgtaacatt   2760

tttatgcaga cagtctgtta tgcactgtgg tttcagatgt gcaataattt gtacaatggt   2820

ttattcccaa gtatgccttt aagcagaaca aatgtgtttt tctatatagt tccttgcctt   2880

aataaatatg taatataaat ttaaccca                                      2908


<210>  2

<211>  2639

<212>  DNA

<213>  Homo sapiens


<400>  2
tcgaggcgac cgcgacagtg gtgggggacg ctgctgagtg gaagagagcg cagcccggcc     60

accggaccta cttactcgcc ttgctgattg tctatttttg cgtttacaac ttttctaaga    120

acttttgtat acaaaggaac tttttaaaaa agacgcttcc aagttatatt taatccaaag    180

aagaaggatc tcggccaatt tggggttttg ggttttggct tcgtttcttc tcttcgttga    240

ctttgggggtt caggtgcccc agctgcttcg ggctgccgag gaccttctgg gcccccacat    300

taatgaggca gccacctggc gagtctgaca tggctgtcag cgacgcgctg ctcccatctt    360

tctccacgtt cgcgtctggc ccggcgggaa gggagaagac actgcgtcaa gcaggtgccc    420

cgaataaccg ctggcgggag gagctctccc acatgaagcg acttcccca gtgcttccg     480

gccgccccta tgacctggcg gcggcgaccg tggccacaga cctggagagc ggcggagccg    540

gtgcggcttg cggcggtagc aacctggcgc ccctacctcg agagagacc gaggagttca    600

acgatctcct ggacctggac tttattctct ccaattcgct gacccatcct ccggagtcag    660
```

82

```
tggccgccac cgtgtcctcg tcagcgtcag cctcctcttc gtcgtcgccg tcgagcagcg    720

gccctgccag cgcgccctcc acctgcagct tcacctatcc gatccgggcc gggaacgacc    780

cgggcgtggc gccgggcggc acgggcggag gcctcctcta tggcagggag tccgctcccc    840

ctccgacggc tcccttcaac ctggcggaca tcaacgacgt gagcccctcg ggcggcttcg    900

tggccgagct cctgcggcca gaattggacc cggtgtacat tccgccgcag cagccgcagc    960

cgccaggtgg cgggctgatg ggcaagttcg tgctgaaggc gtcgctgagc gcccctggca   1020

gcgagtacgg cagcccgtcg gtcatcagcg tcagcaaagg cagccctgac ggcagccacc   1080

cggtggtggt ggcgccctac aacggcgggc cgccgcgcac gtgccccaag atcaagcagg   1140

aggcggtctc ttcgtgcacc cacttgggcg ctggaccccc tctcagcaat ggccaccggc   1200

cggctgcaca cgacttcccc ctggggcggc agctccccag caggactacc ccgaccctgg   1260

gtcttgagga agtgctgagc agcagggact gtcaccctgc cctgccgctt cctcccggct   1320

tccatcccca cccgggggccc aattacccat ccttcctgcc cgatcagatg cagccgcaag   1380

tcccgccgct ccattaccaa gagctcatgc cacccggttc ctgcatgcca gaggagccca   1440

agccaaagag gggaagacga tcgtggcccc ggaaaaggac cgccacccac acttgtgatt   1500

acgcgggctg cggcaaaacc tacacaaaga gttcccatct caaggcacac ctgcgaaccc   1560

acacaggtga gaaaccttac cactgtgact gggacggctg tggatggaaa ttcgcccgct   1620

cagatgaact gaccaggcac taccgtaaac acacggggca ccgccgttc cagtgccaaa   1680

aatgcgaccg agcatttttcc aggtcggacc acctcgcctt acacatgaag aggcattttt   1740

aaatcccaga cagtggatat gacccacact gccagaagag aattcagtat tttttacttt   1800

tcacactgtc ttcccgatga gggaaggagc ccagccagaa agcactacaa tcatggtcaa   1860

gttcccaact gagtcatctt gtgagtggat aatcaggaaa aatgaggaat ccaaaagaca   1920

aaaatcaaag aacagatggg gtctgtgact ggatcttcta tcattccaat tctaaatccg   1980

acttgaatat tcctggactt acaaaatgcc aaggggggtga ctggaagttg tggatatcag   2040

ggtataaatt atatccgtga gttgggggag ggaagaccag aattcccttg aattgtgtat   2100

tgatgcaata taagcataaa agatcacctt gtattctctt taccttctaa aagccattat   2160

tatgatgtta gaagaagagg aagaaattca ggtacagaaa acatgtttaa atagcctaaa   2220

tgatggtgct tggtgagtct tggttctaaa ggtaccaaac aaggaagcca aagttttcaa   2280

actgctgcat actttgacaa ggaaaatcta tatttgtctt ccgatcaaca tttatgacct   2340
```

83

```
aagtcaggta atataccctgg tttacttctt tagcattttt atgcagacag tctgttatgc    2400

actgtggttt cagatgtgca ataatttgta caatggttta ttcccaagta tgccttaagc    2460

agaacaaatg tgtttttcta tatagttcct tgccttaata aatatgtaat ataaatttaa    2520

gcaaacgtct attttgtata tttgtaaact acaaagtaaa atgaacattt tgtggagttt    2580

gtattttgca tactcaaggt gagaattaag ttttaaataa acctataata ttttatctg     2639
```

<210> 3

<211> 20

<212> DNA

<213> artificial

<220>

<223> synthetic

<400> 3
gagaaggagg cgtggccaac   20